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In Vitro Growth of CD4+ Peripheral Blood T Cells in Serum-Free Medium

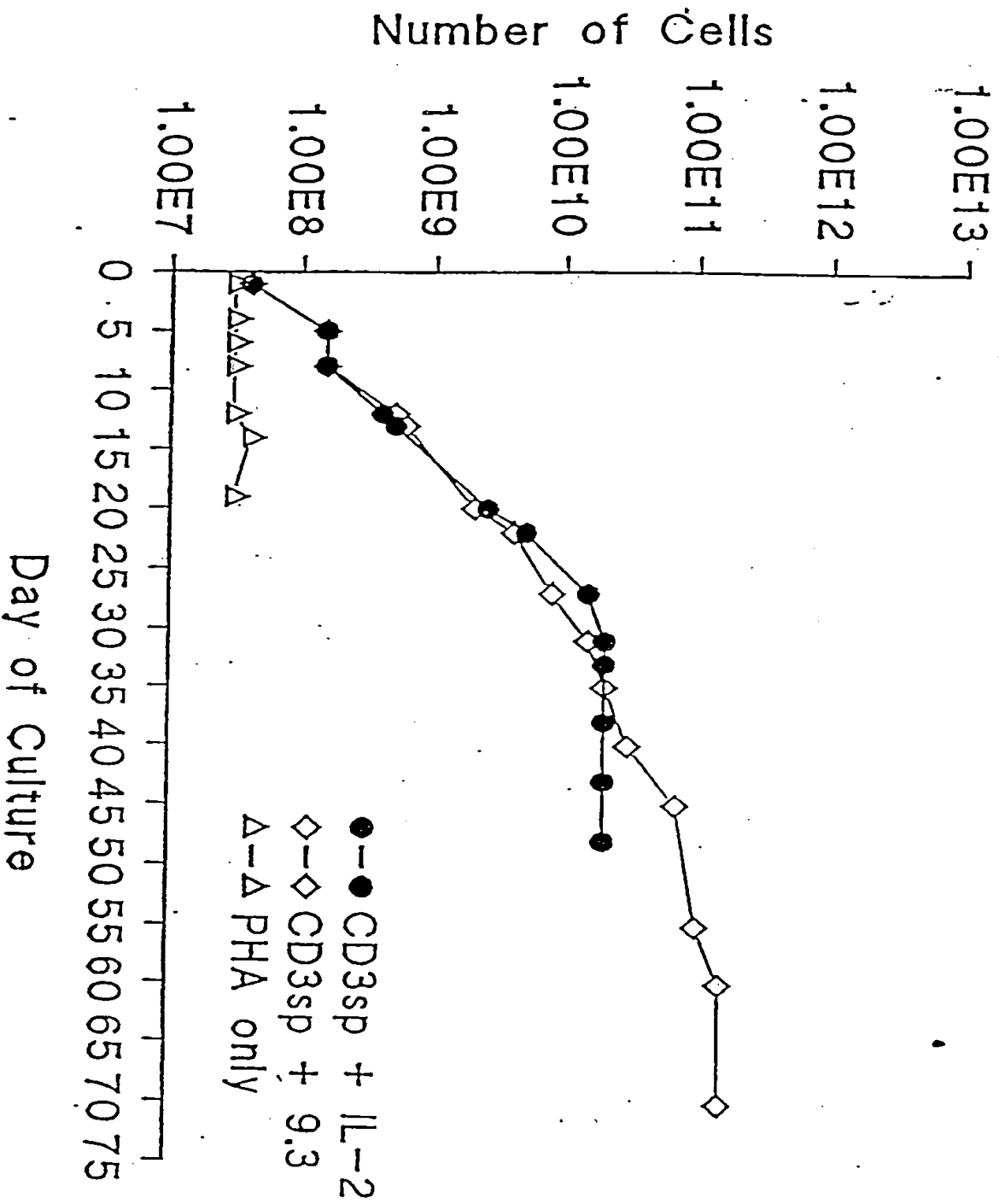


FIG. 1

GAMMA/DELTA NO. 7

(RPMI w/ 10% FCS)

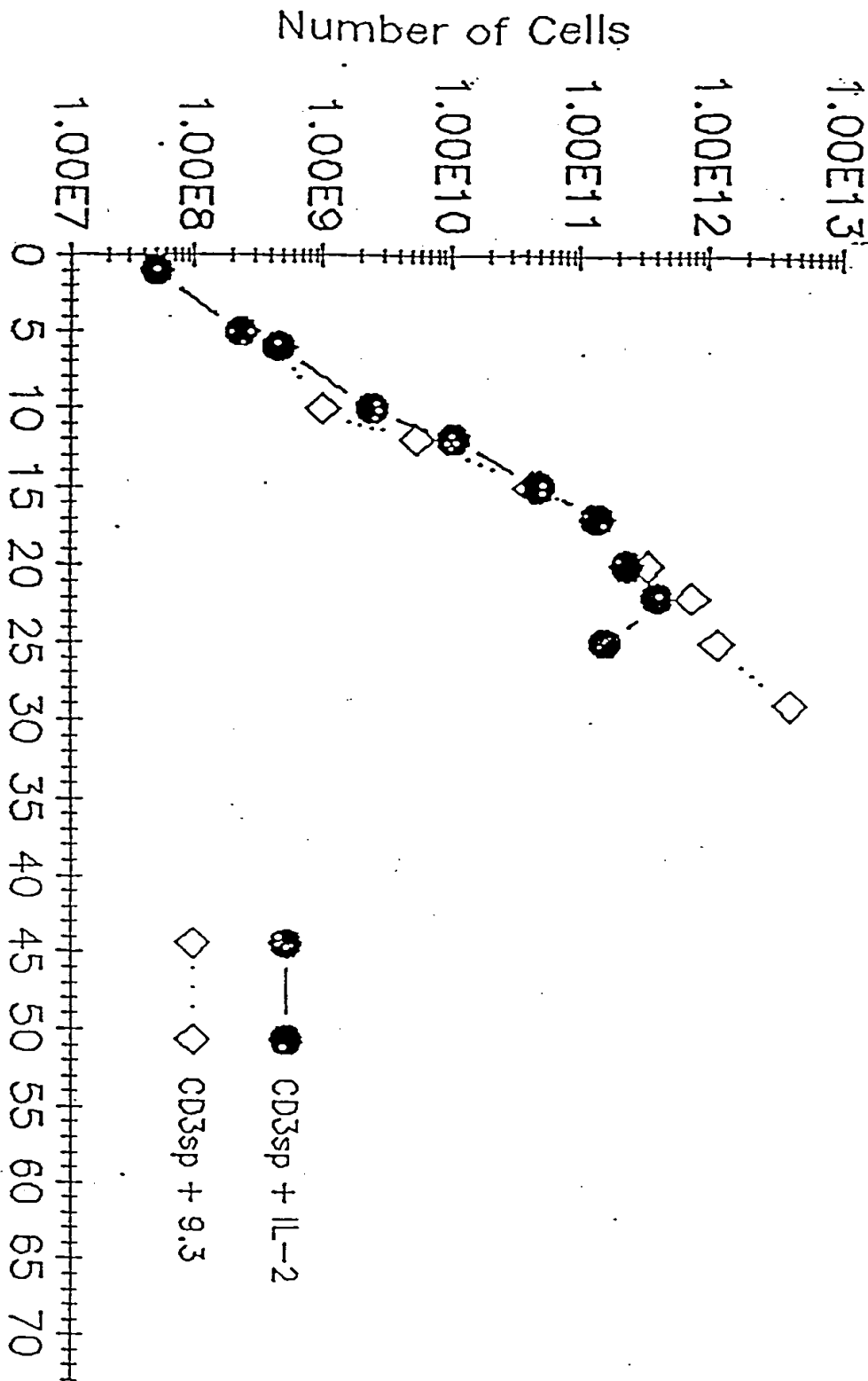


FIG. 2

LT #13: GROWTH CURVES

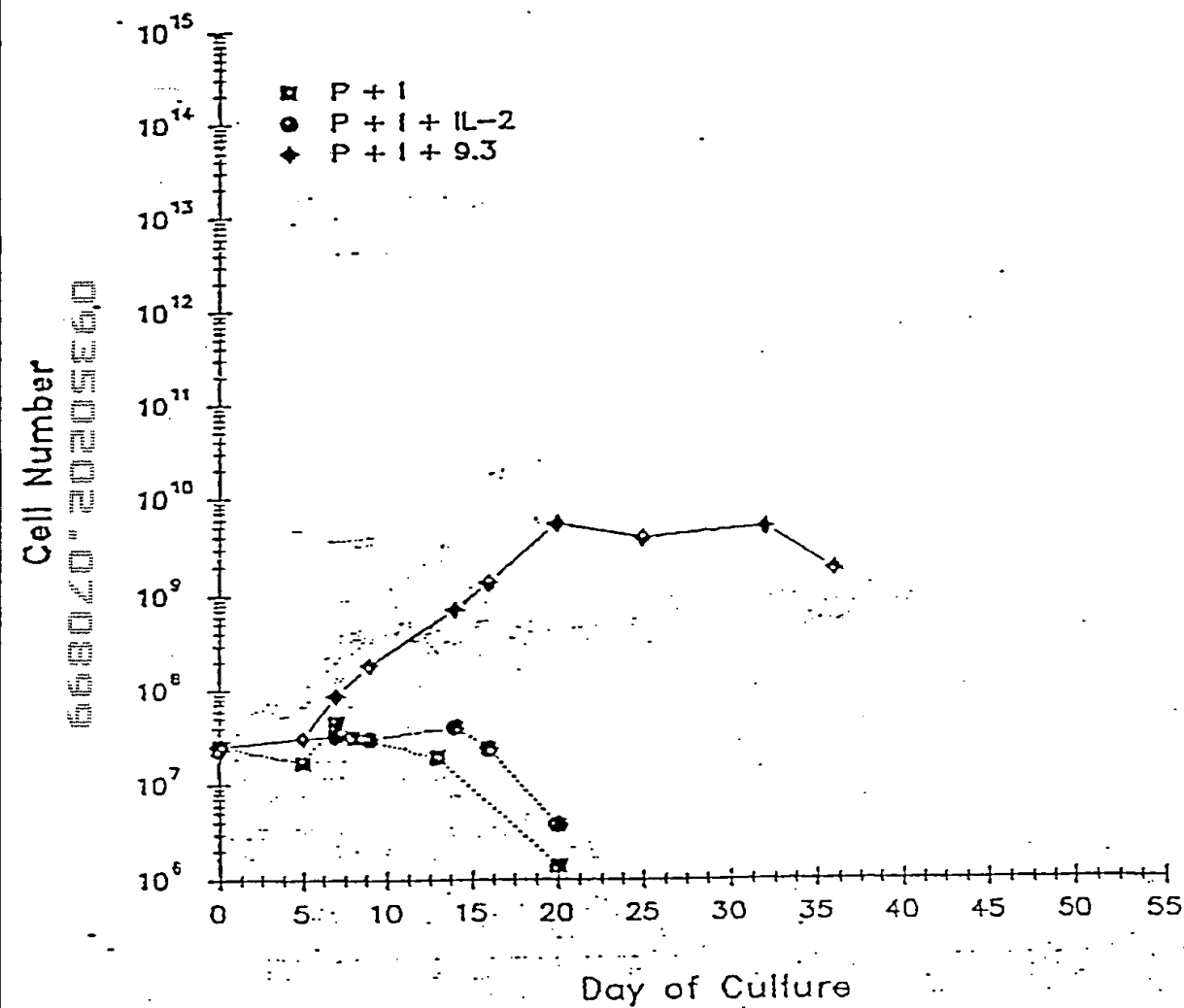
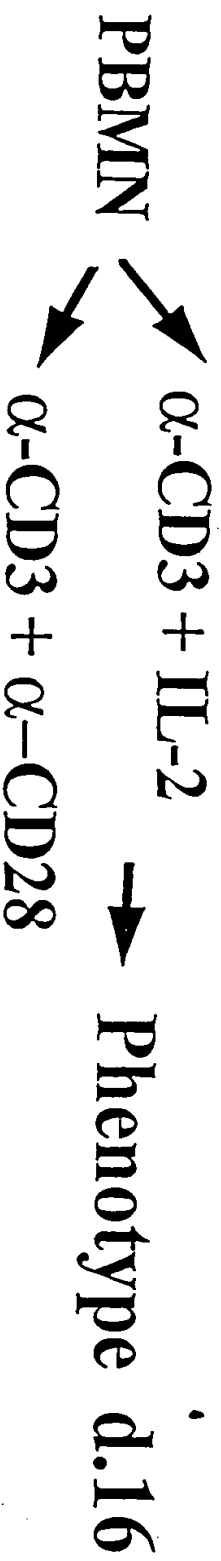


FIG. 3

Selective Outgrowth of CD4⁺ T Cells During CD28 Stimulated T Cell Expansion



Culture	Day 0		Day 16	
	CD4	CD8	CD4	CD8
	30.9		13.9	
CD3 + IL-2	8.0		84.5	
CD3 + CD28	44.6		52.5	

FIG. 4

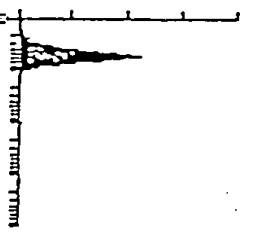
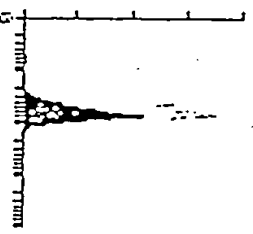
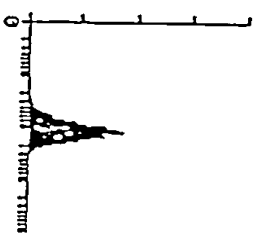
A.
RESTING CELLS
DAY 0

CONTROL

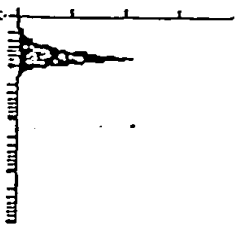
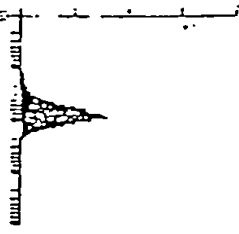
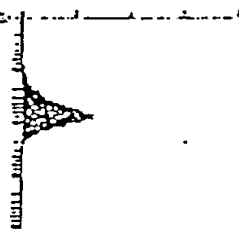
ANTI-CD3

ANTI-CD4

ANTI-CD8



B.
CD3 + CD28 DRIVEN
CELLS, DAY 26



C.
CD3 + IL-2 DRIVEN
CELLS, DAY 26

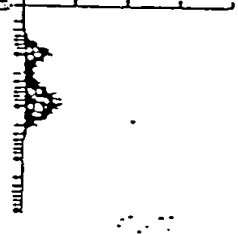
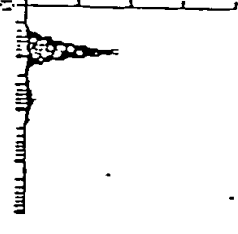
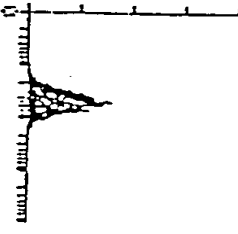
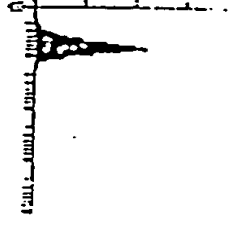
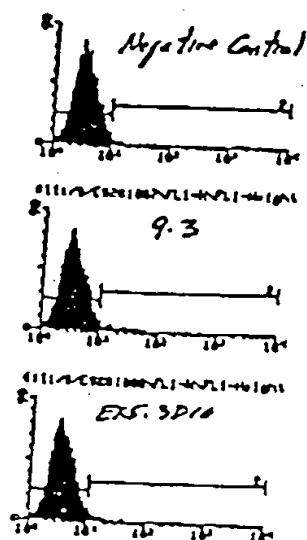


FIG. 5

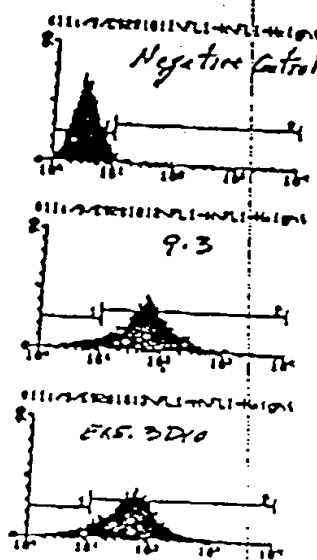
09350202.070899

mAb EX5.3D10

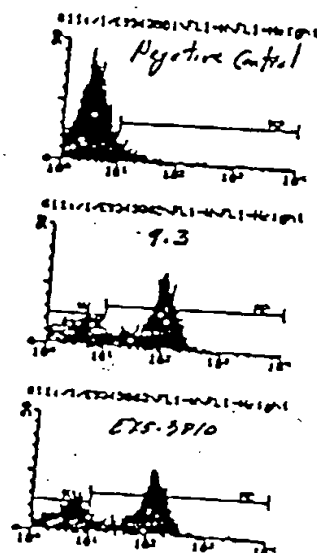
a. CHO-DG44 cells



b. CHO-hh cells



c. Unactivated PBLs



d. Jurkat #7 cells

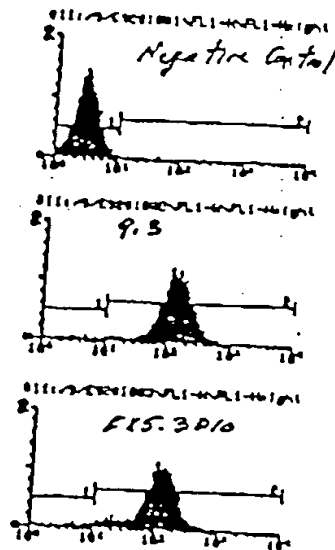
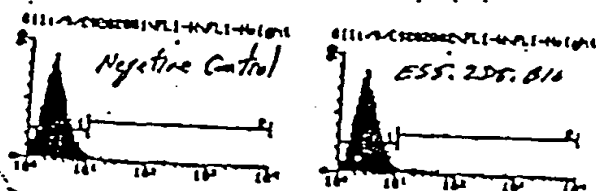


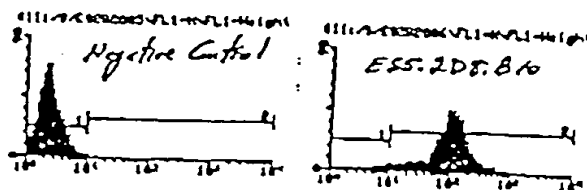
FIG. 6

mAb ES5.2D8

a. CHO-DG44 cells



b. CHO-105A cells



hPBLs:

c. Unactivated

d. PMA Activated

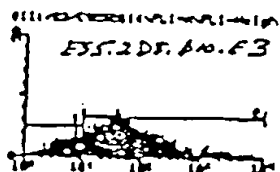
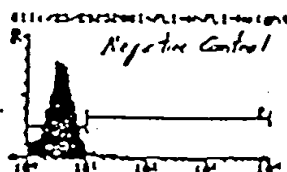


FIG. 7

09350202.070899

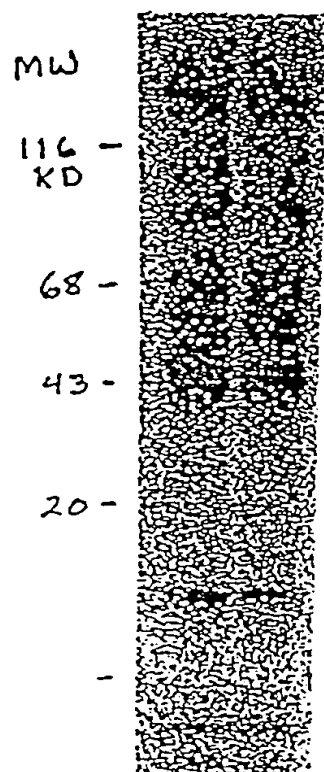


FIG. 8

Use of Cell Sizing to Propagate

CD4⁺ T Cells

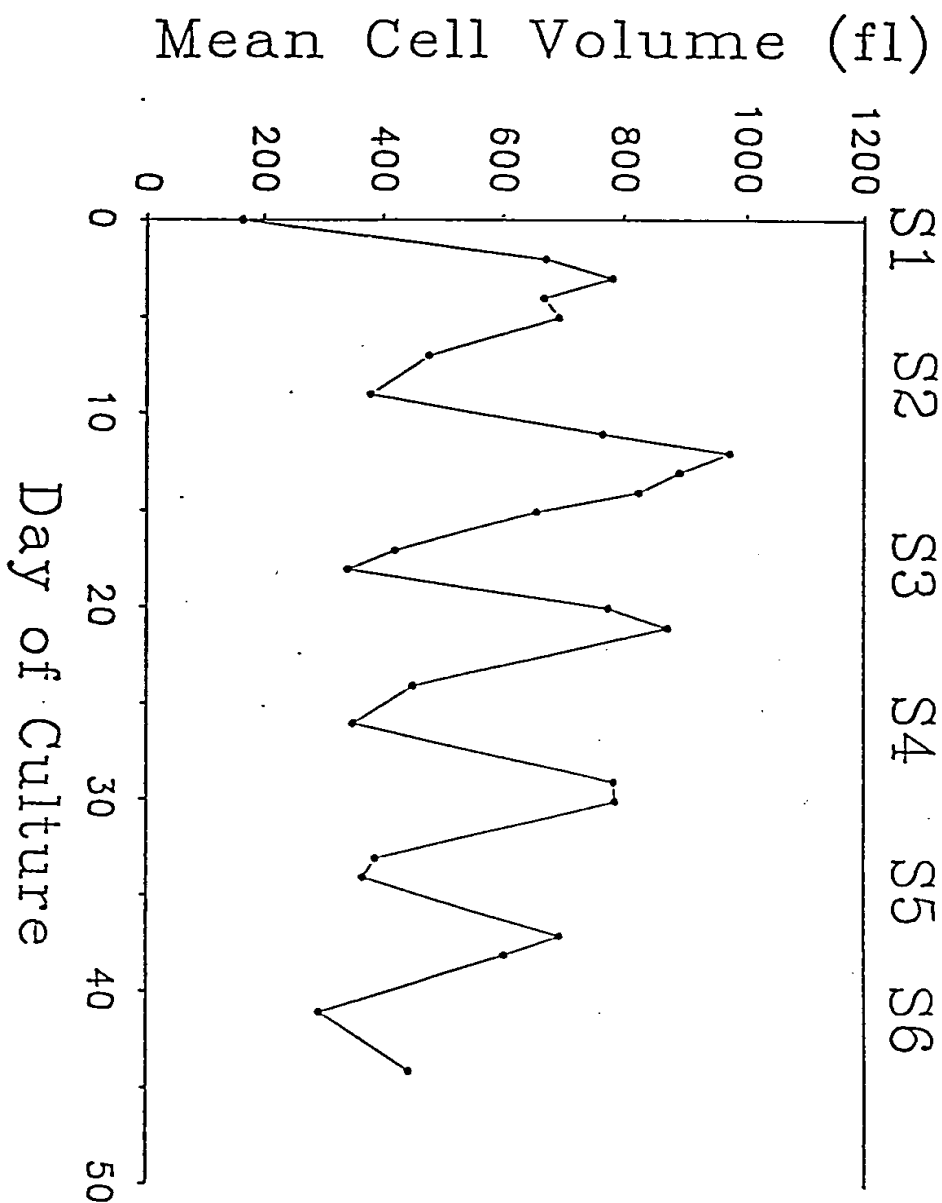


FIG. 9

Cells: CD28⁺/CD4⁺
Stimulation: CD3sp + CD28
09350202 1070899

Cyclic Expression of B7 on CD4⁺ T Cells

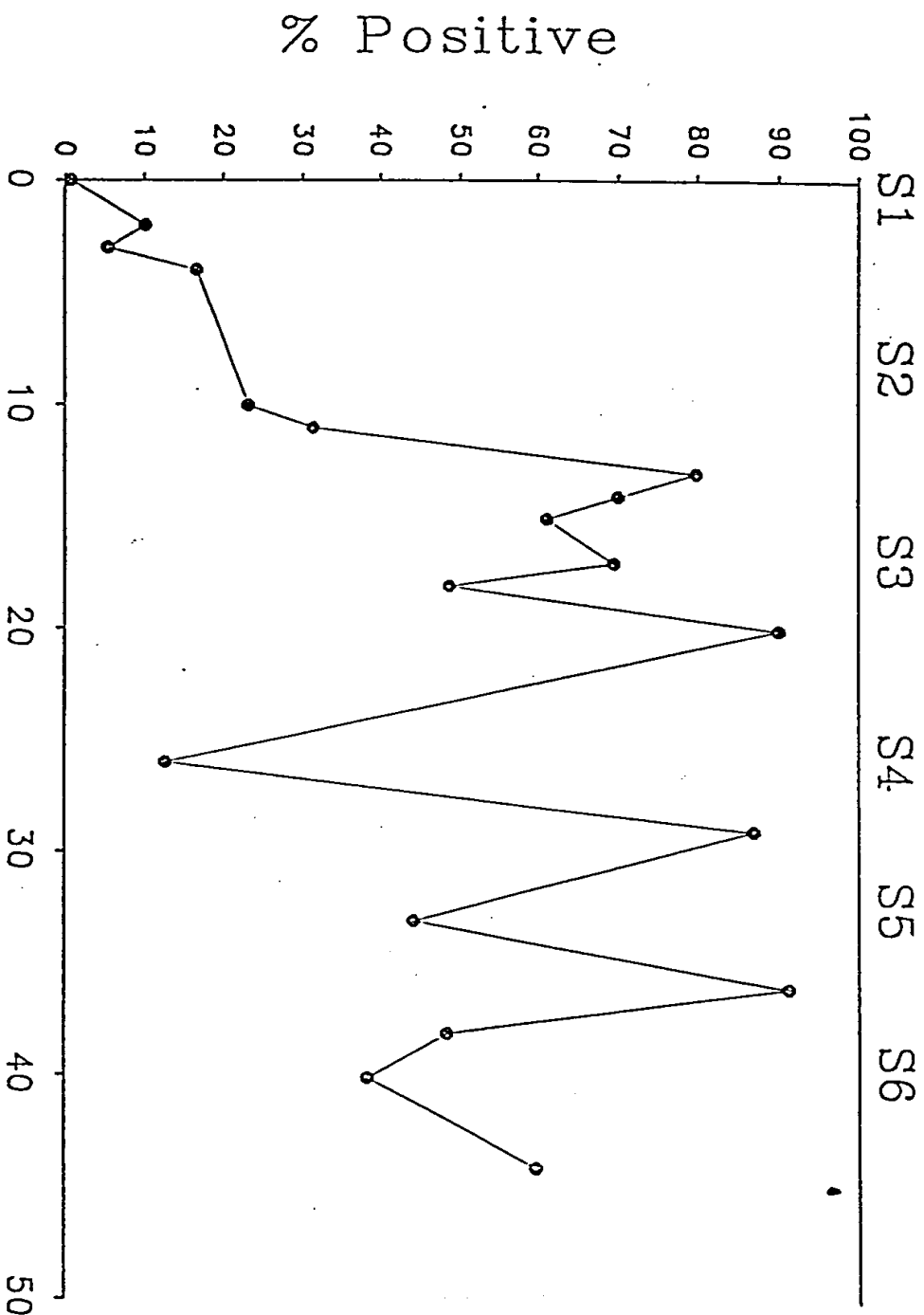


FIG. 10

Cells: CD4⁺/CD28⁺ Day of Culture

Stimulation: CD3sp + CD28

09350202.070899

Cytokine Accumulation in Culture Supernatants

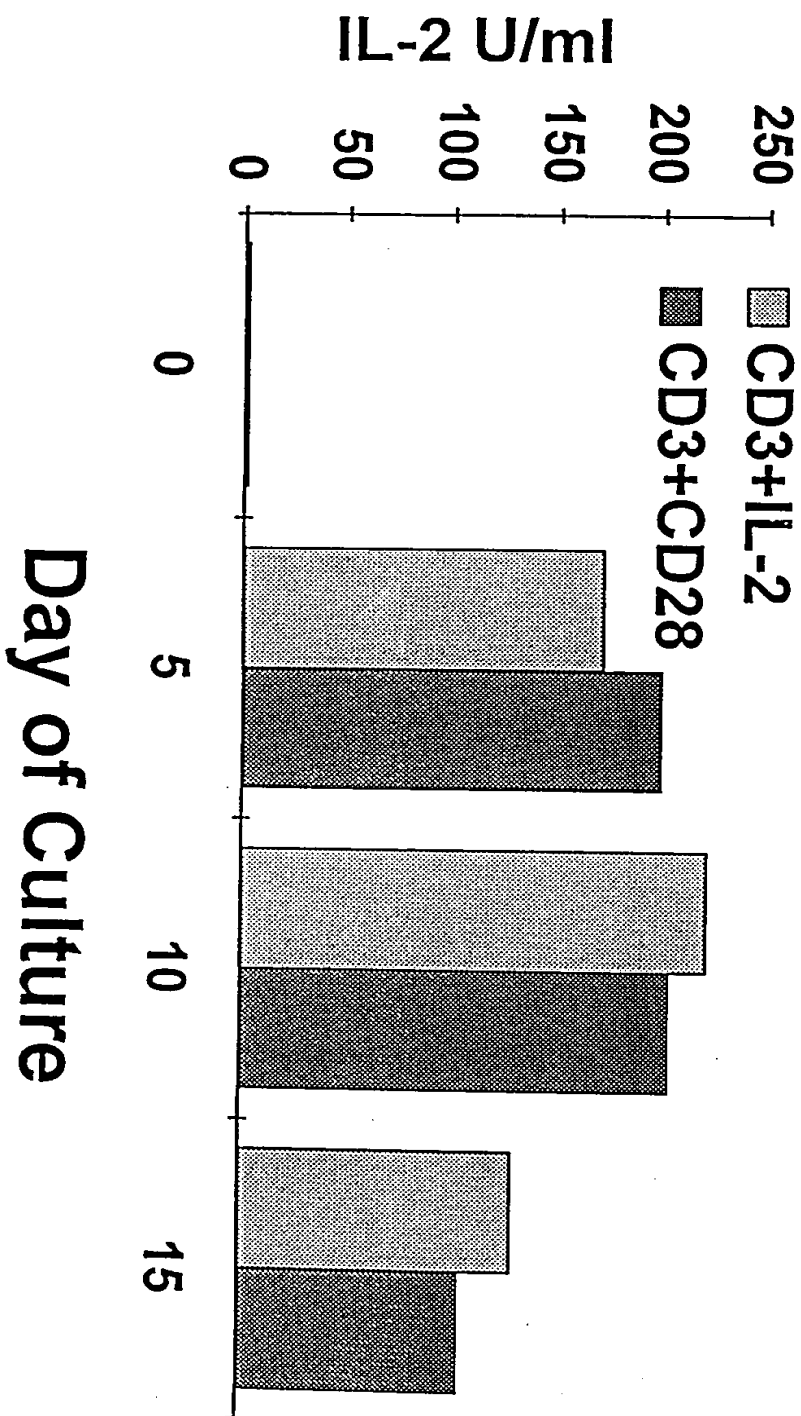


FIG. 11

Cytokine Accumulation in Culture Supernatants

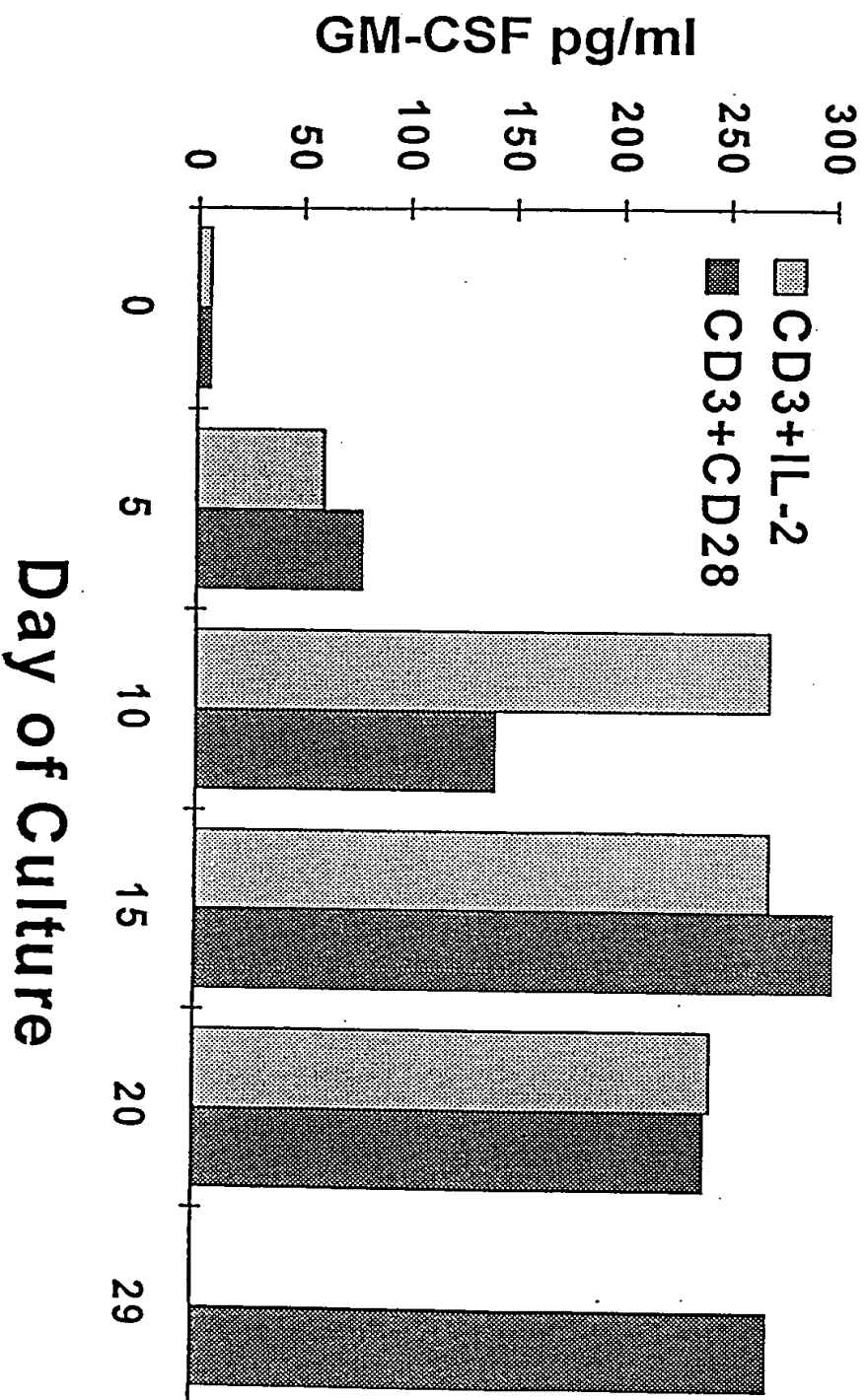


FIG. 12

Cytokine Accumulation in Culture Supernatants

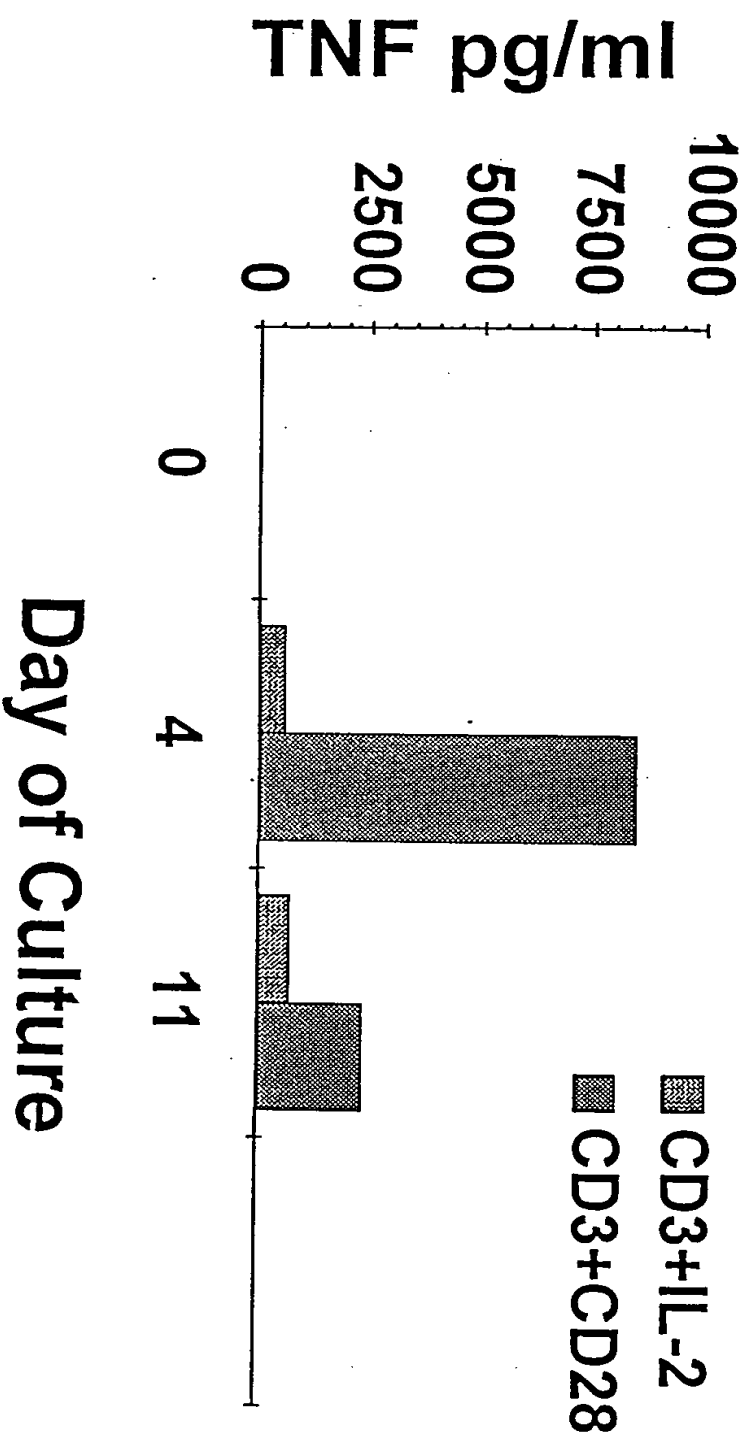


FIG. 13

TCR Diversity

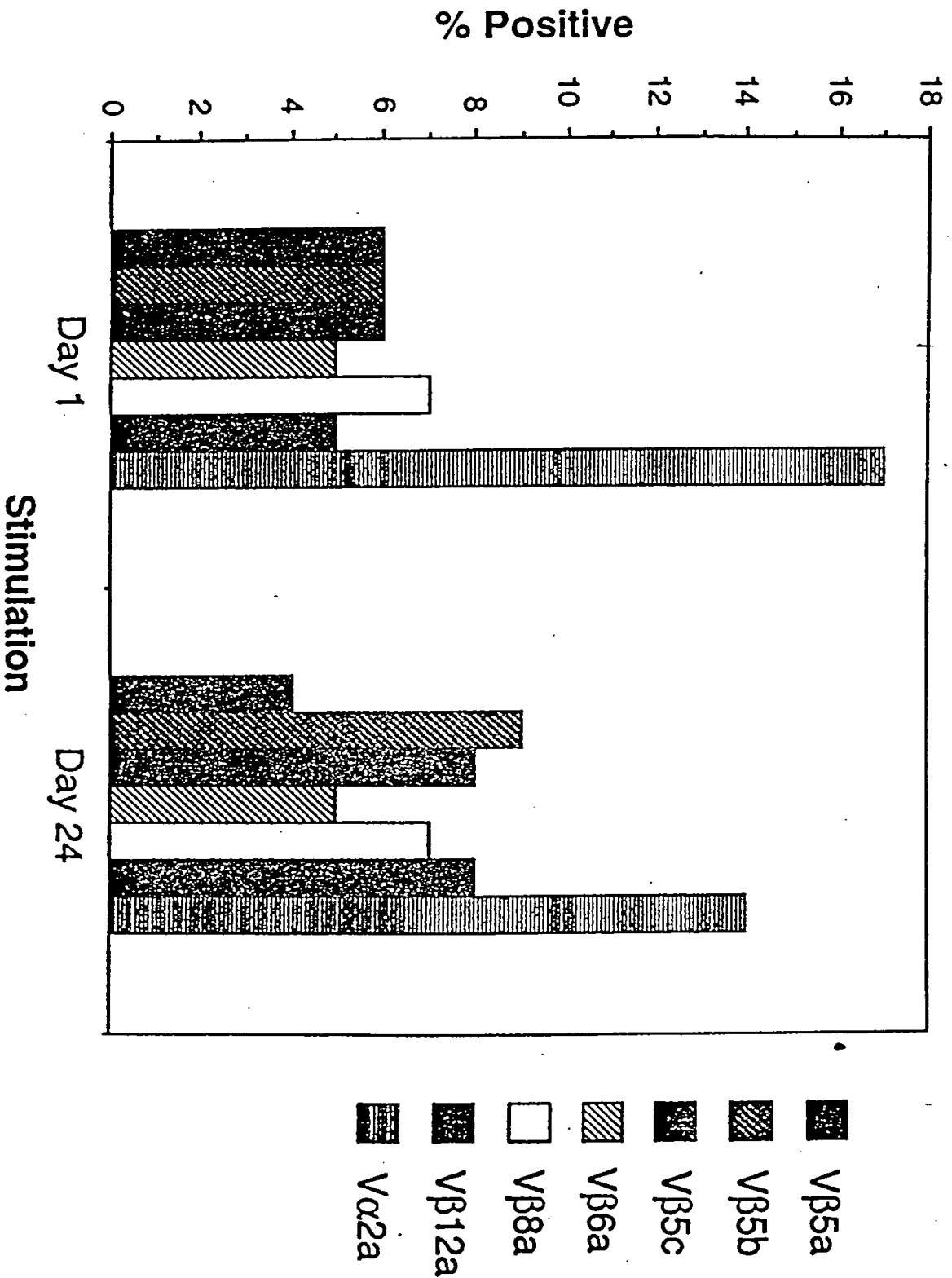


FIG. 14

(HIV-) Cell Surface Staining

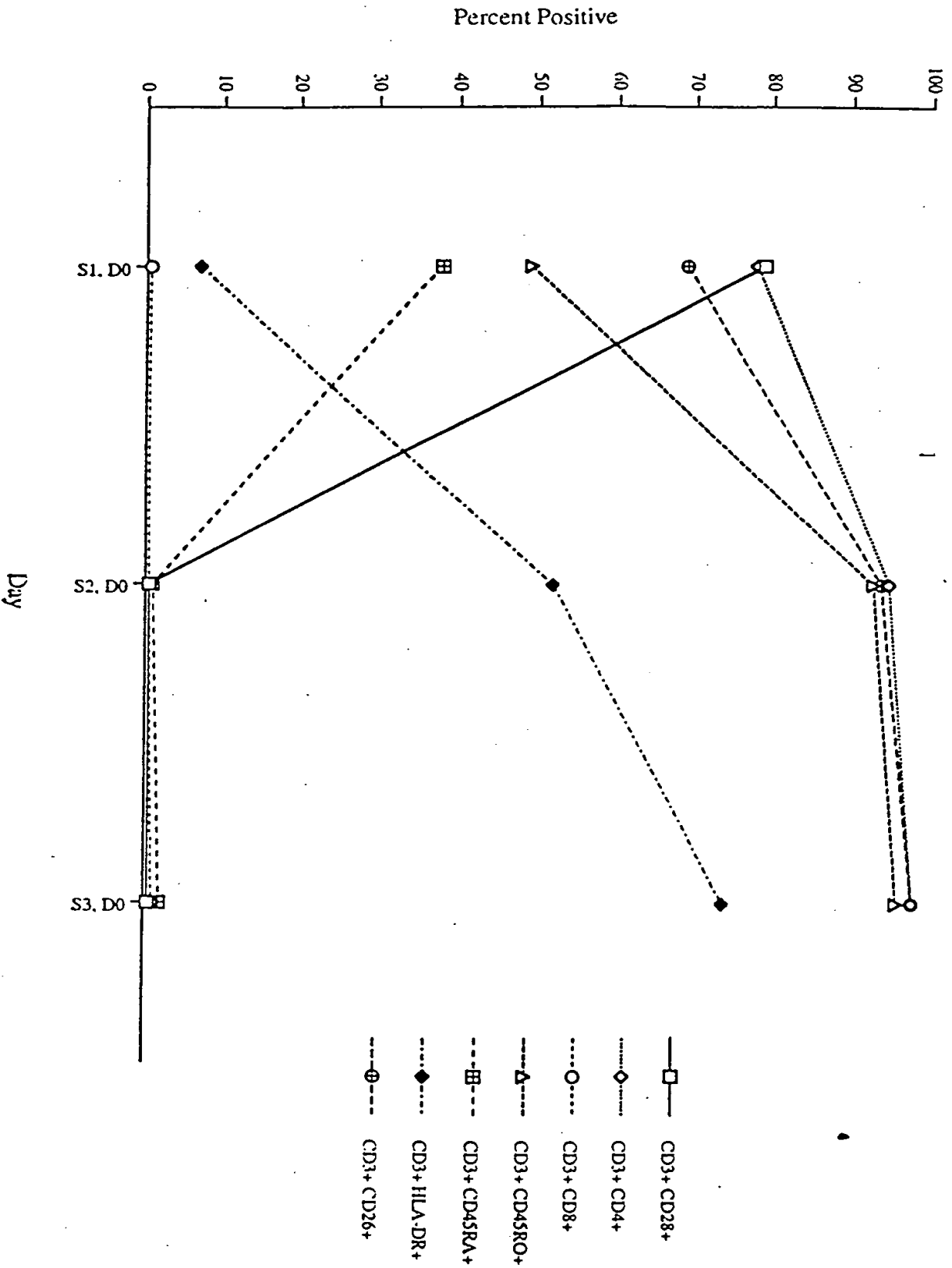


FIG. 15

(HIV+) Cell Surface Staining

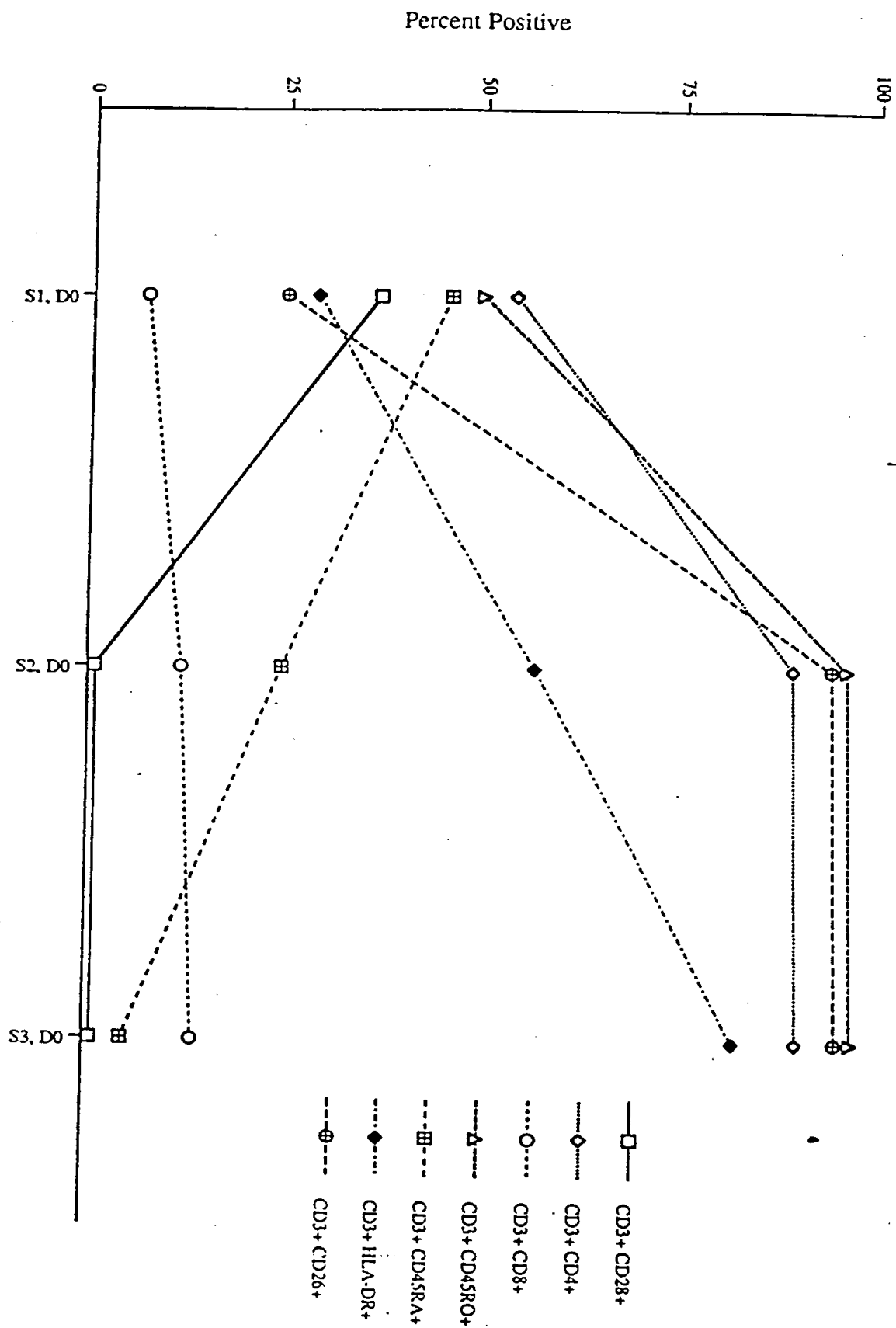


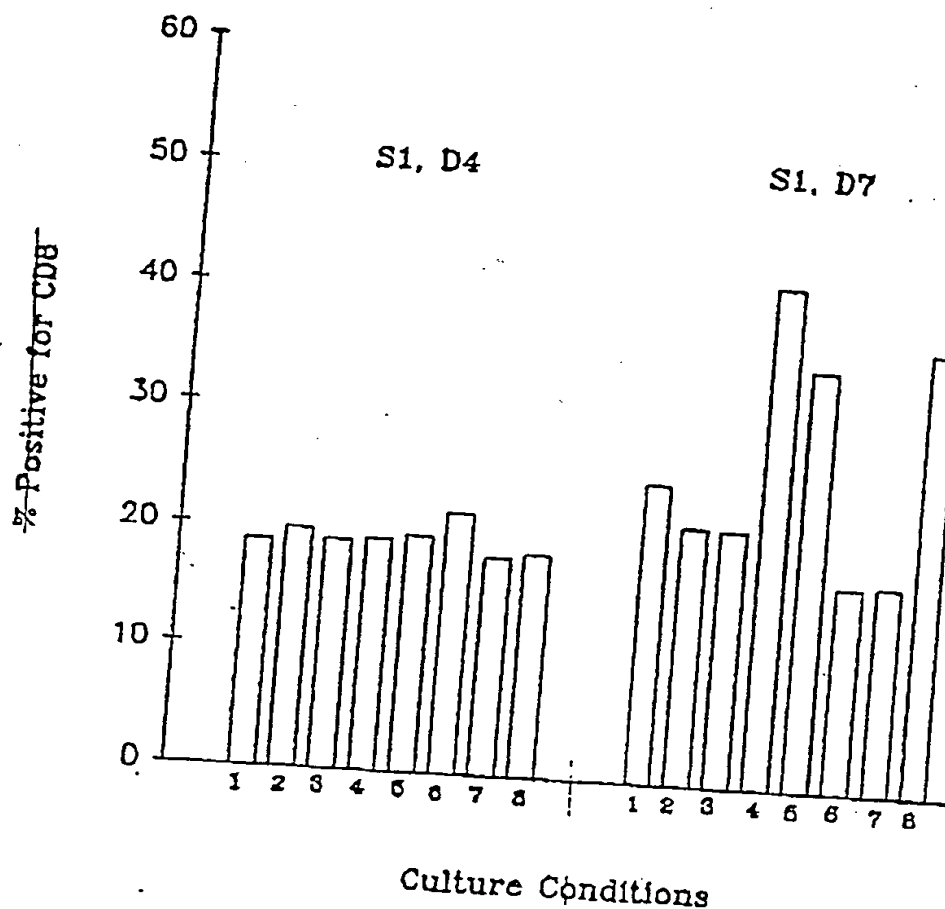
FIG. 16

09350202.070899

Day

09350200 070899

% Positive for CD8



- #1: G19-4sp + IL-2
- #2: G19-4sp + 9.3
- #3: G19-4sp + EX5.3D10
- #4: G19-4sp + ES4.2D8
- #5: G19-4sp + 7G11
- #6: G19-4sp + 9.3 + ES4.2D8
- #7: G19-4sp + 9.3 + 7G11
- #8: G19-4sp + ES4 + 7G11

FIG. 17

09350201 2020560

MOP cells transfected with plasmid encoding:

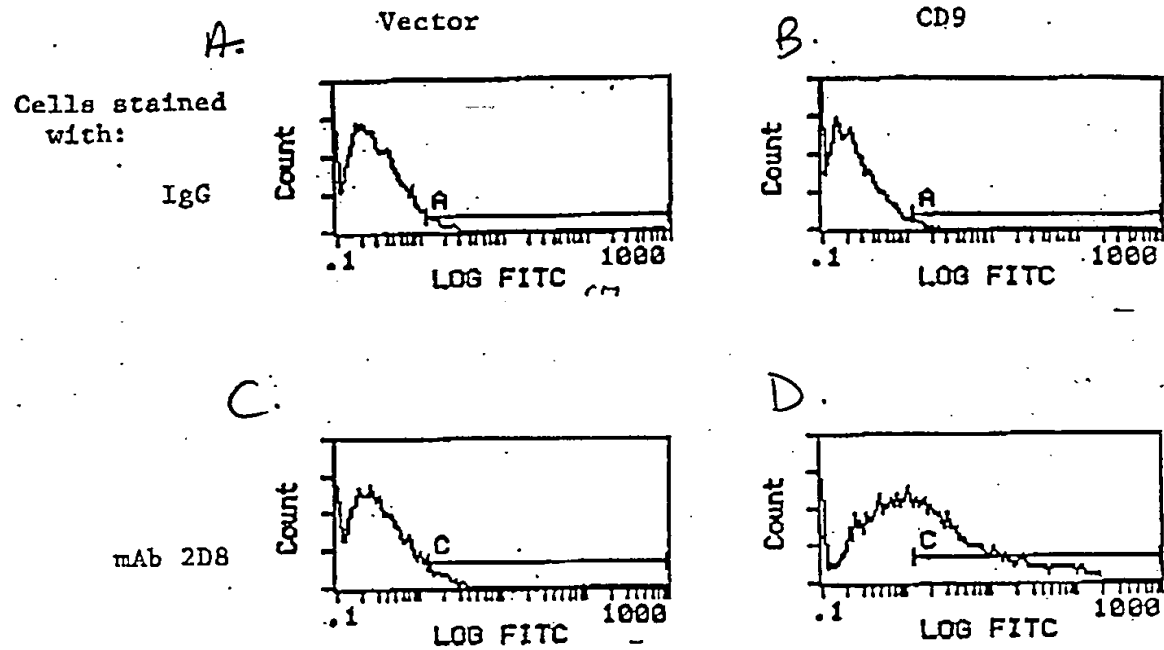


FIG. 18

668040" 2020560

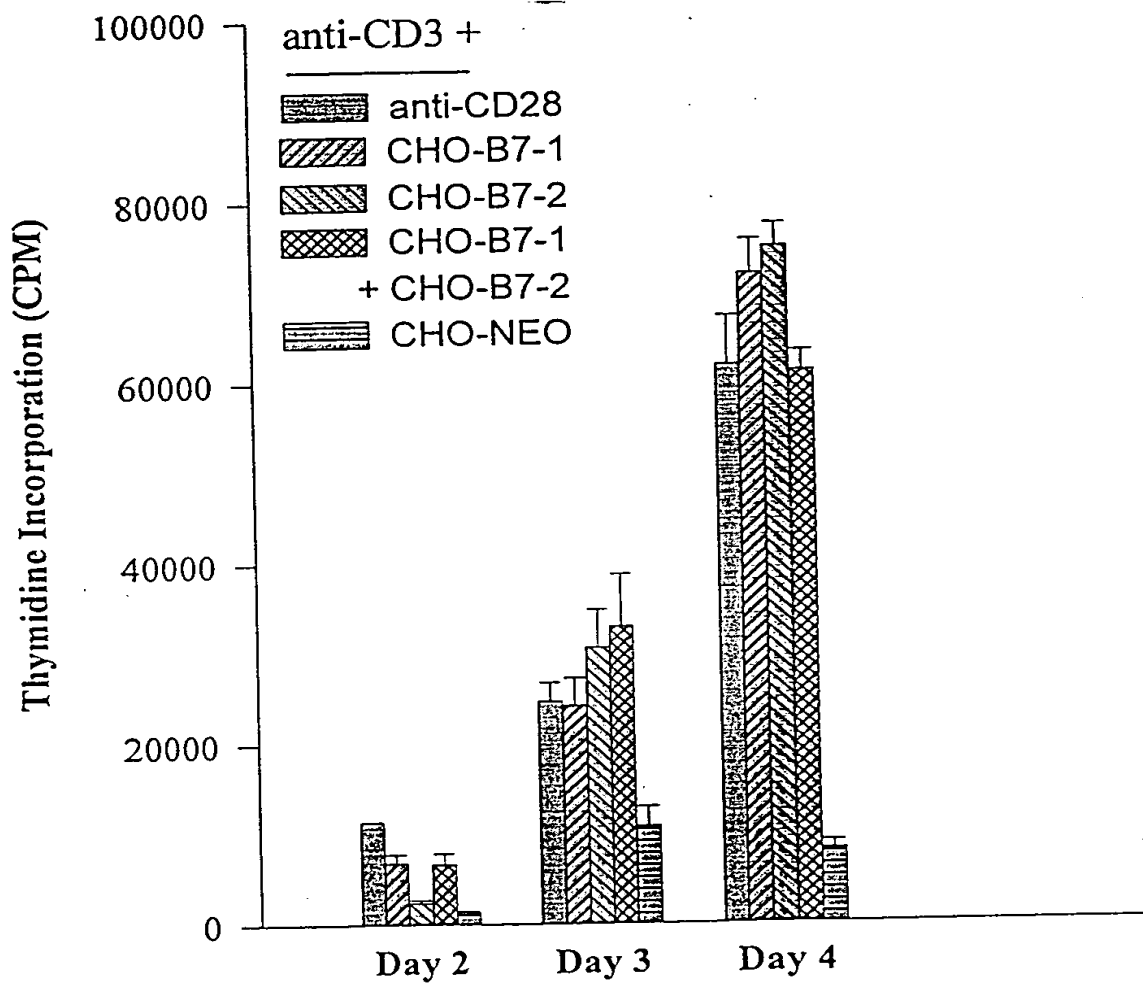


FIG. 19

658040 2020560

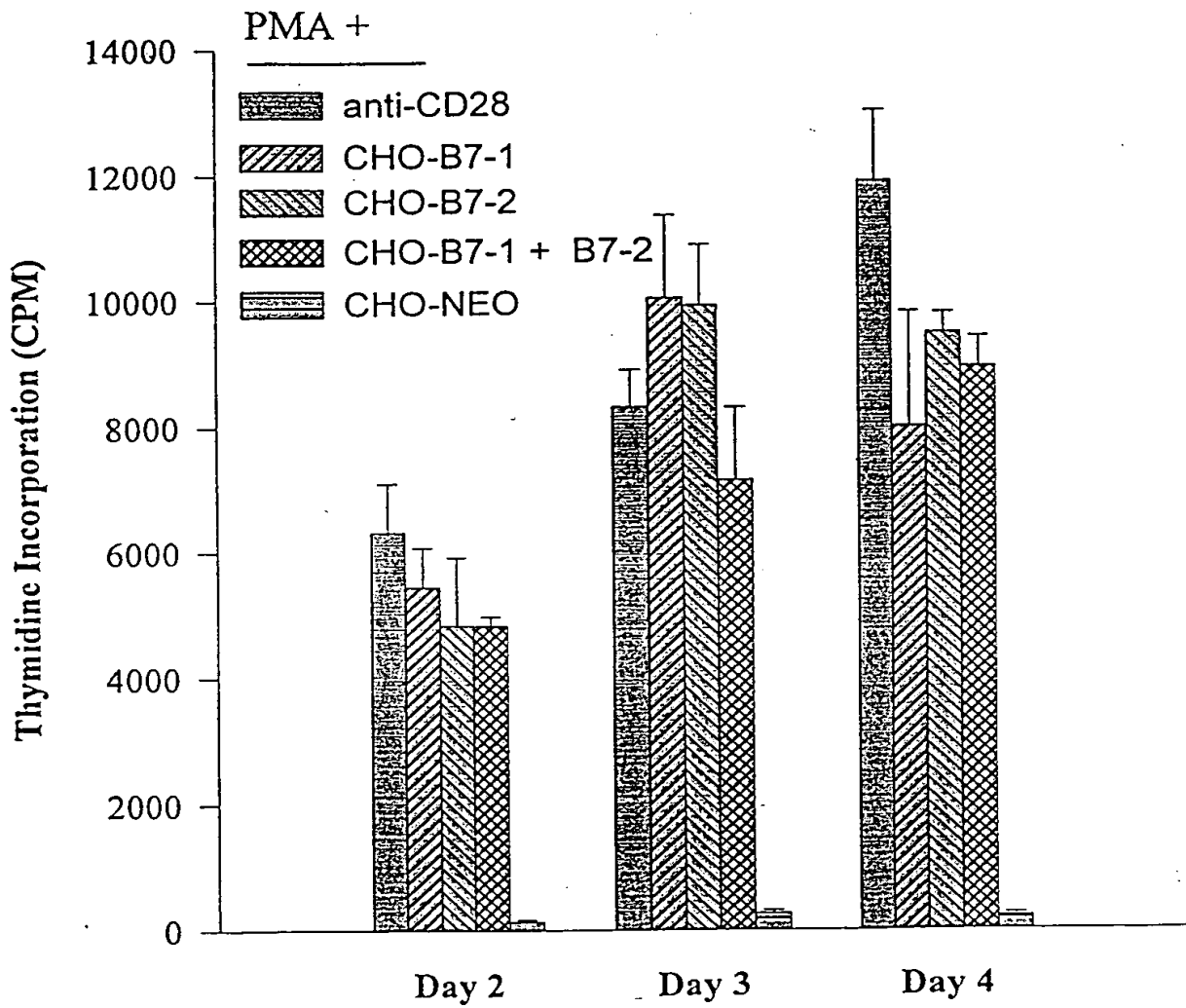


FIG. 20

1558040 2020550
Thymidine Incorporation (CPM)

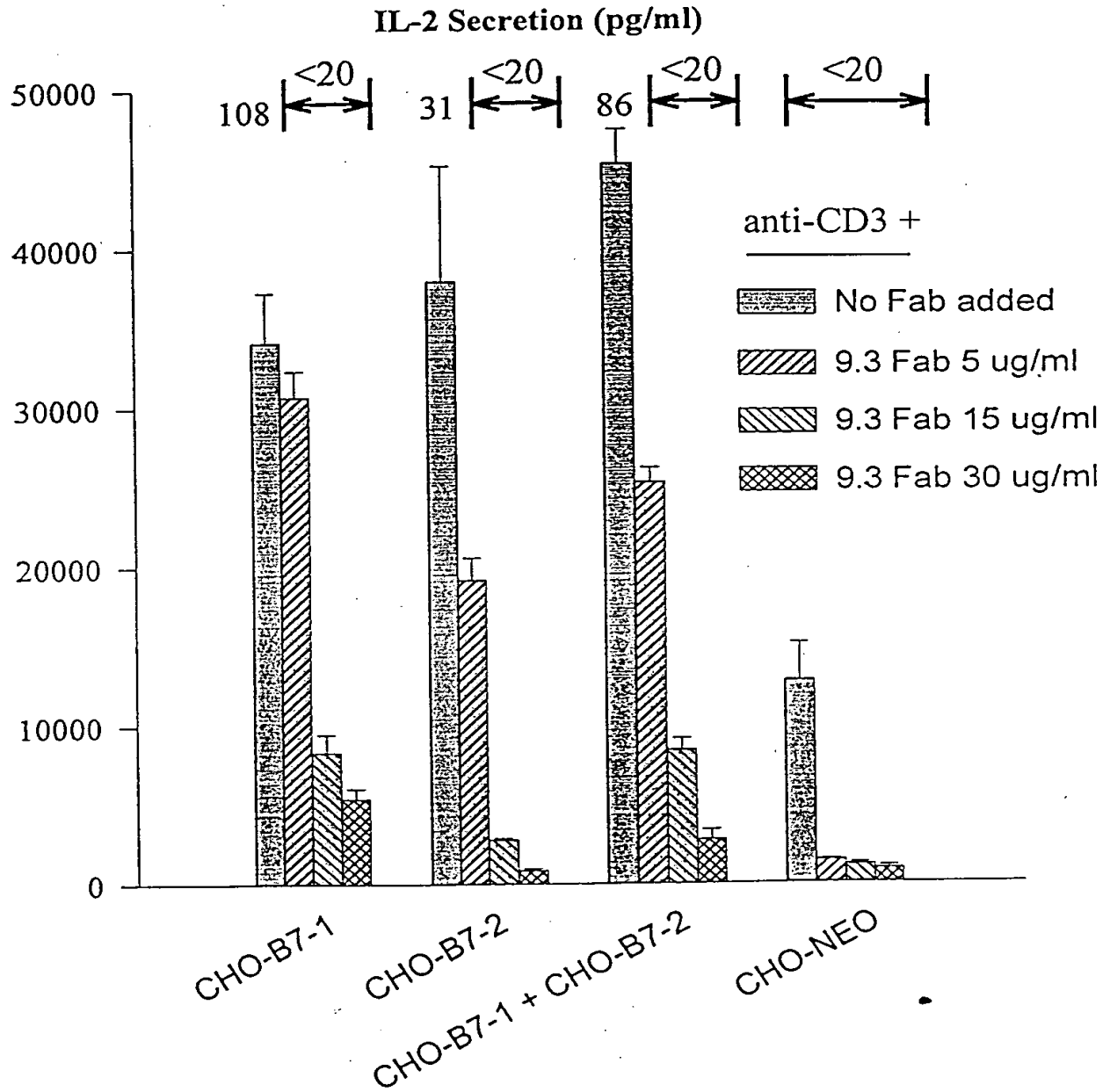


FIG. 21

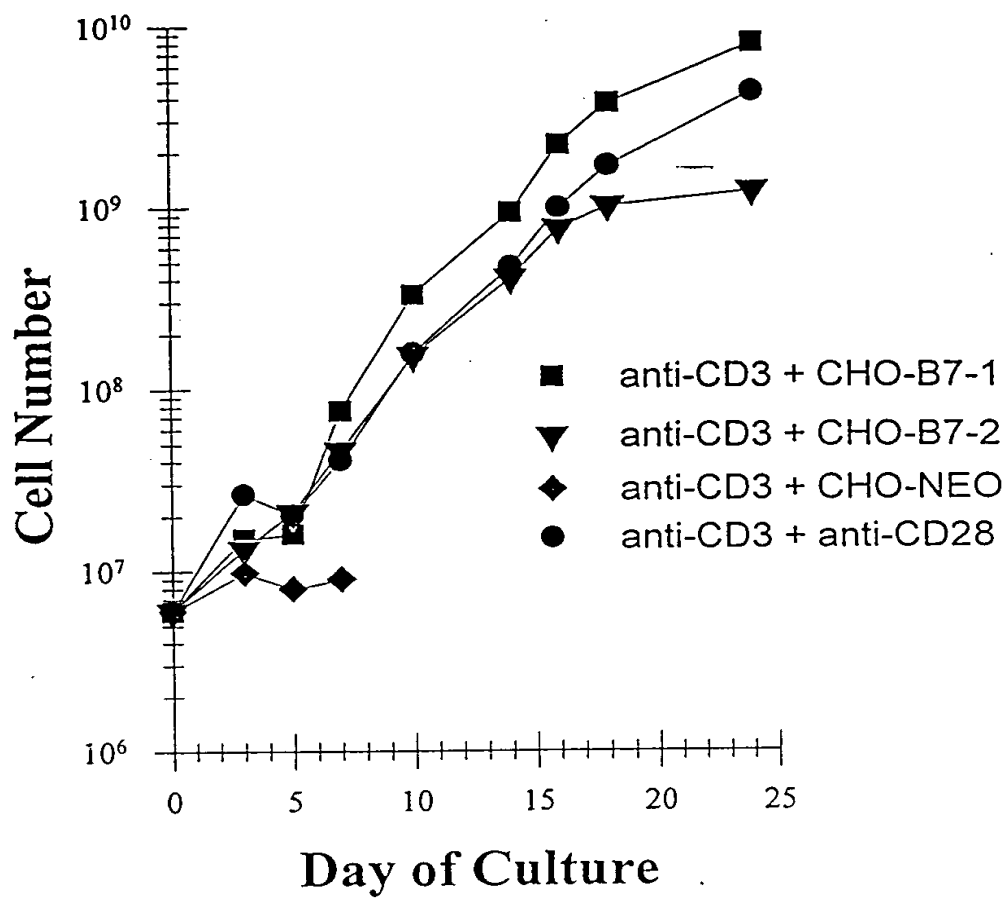
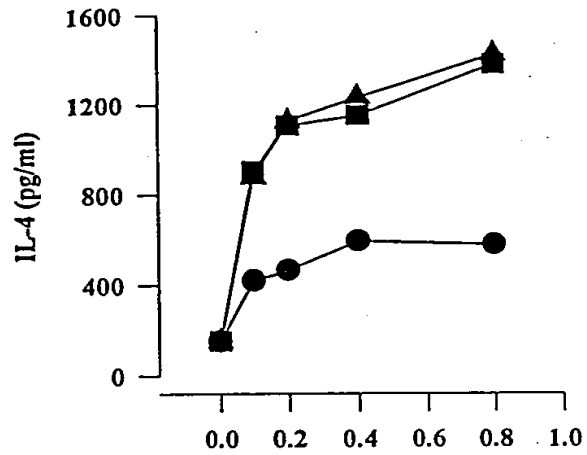
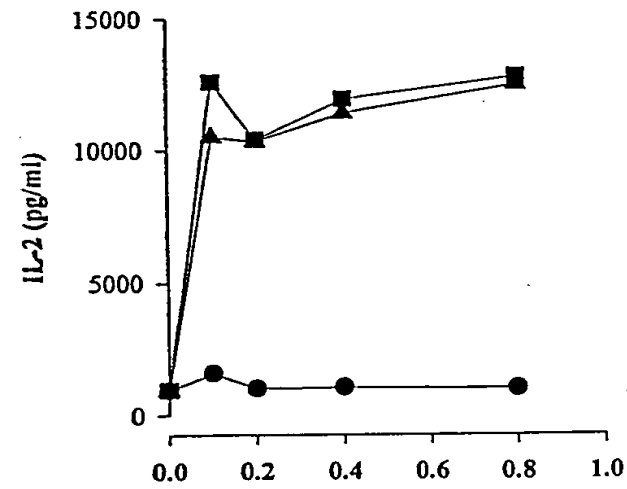
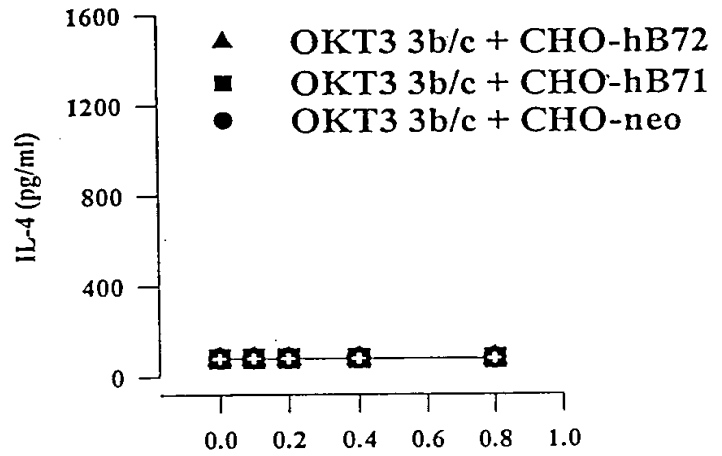
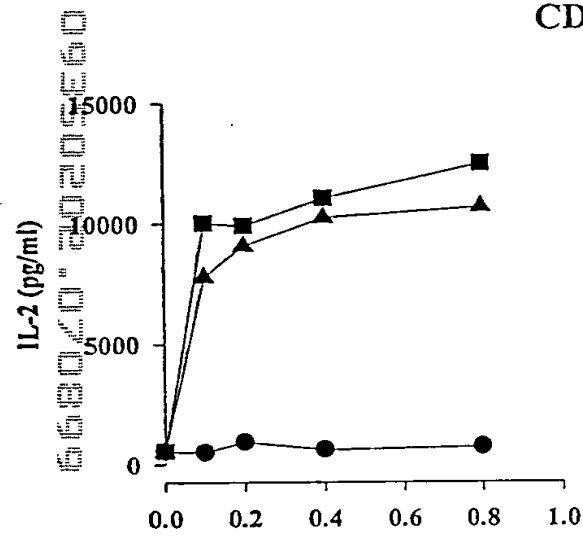


FIG. 22

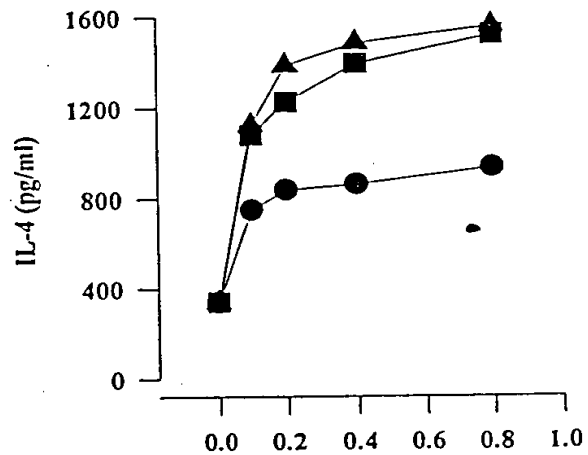
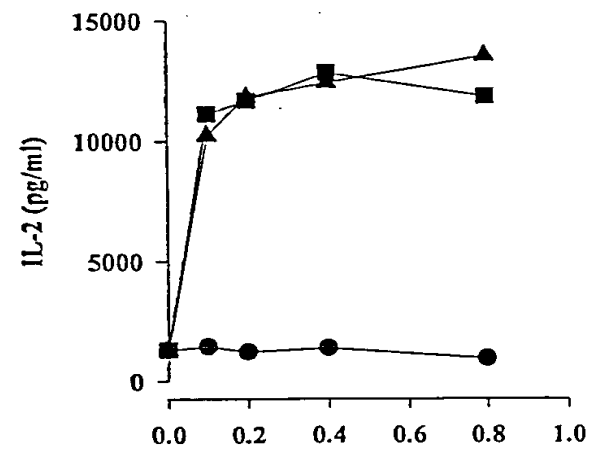
CD4⁺ T Cells



CD4⁺/CD45RA⁺ T Cells



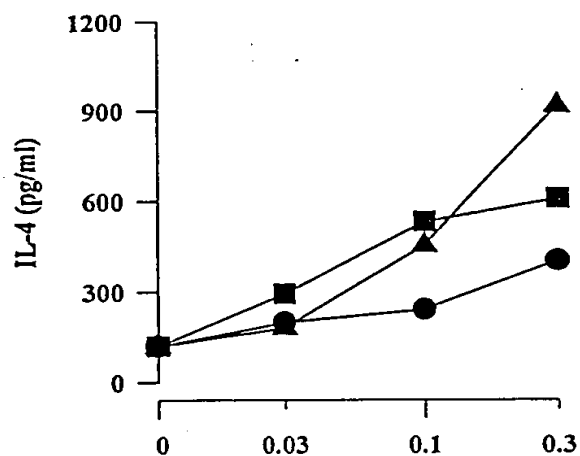
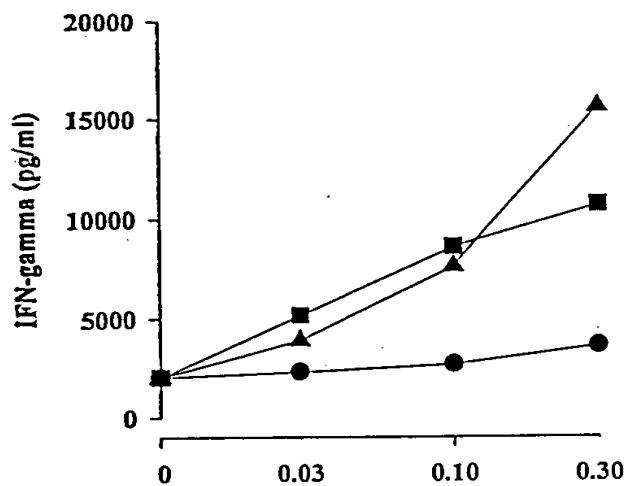
CD4⁺/CD45RO⁺ T Cells



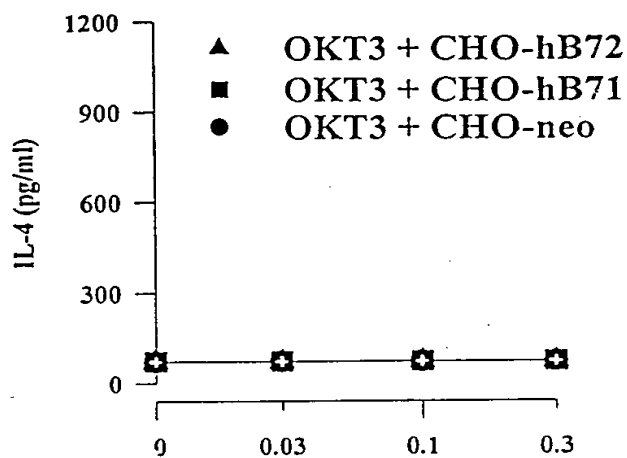
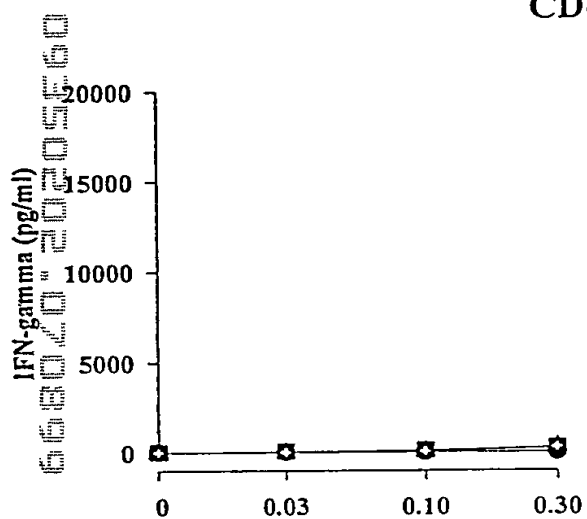
CHO Cells Per T Cell

FIG. 23

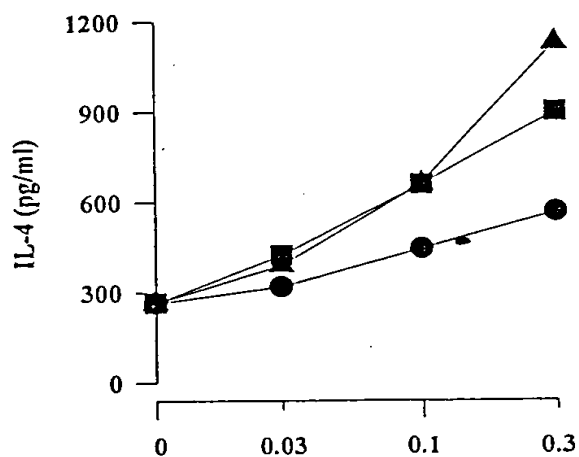
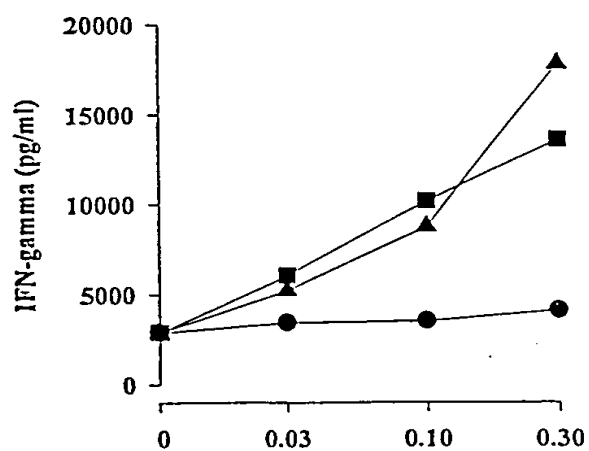
CD4⁺ T Cells



CD4⁺/CD45RA⁺ T Cells



CD4⁺/CD45RO⁺ T Cells



CHO Cells Per T Cell

FIG. 24

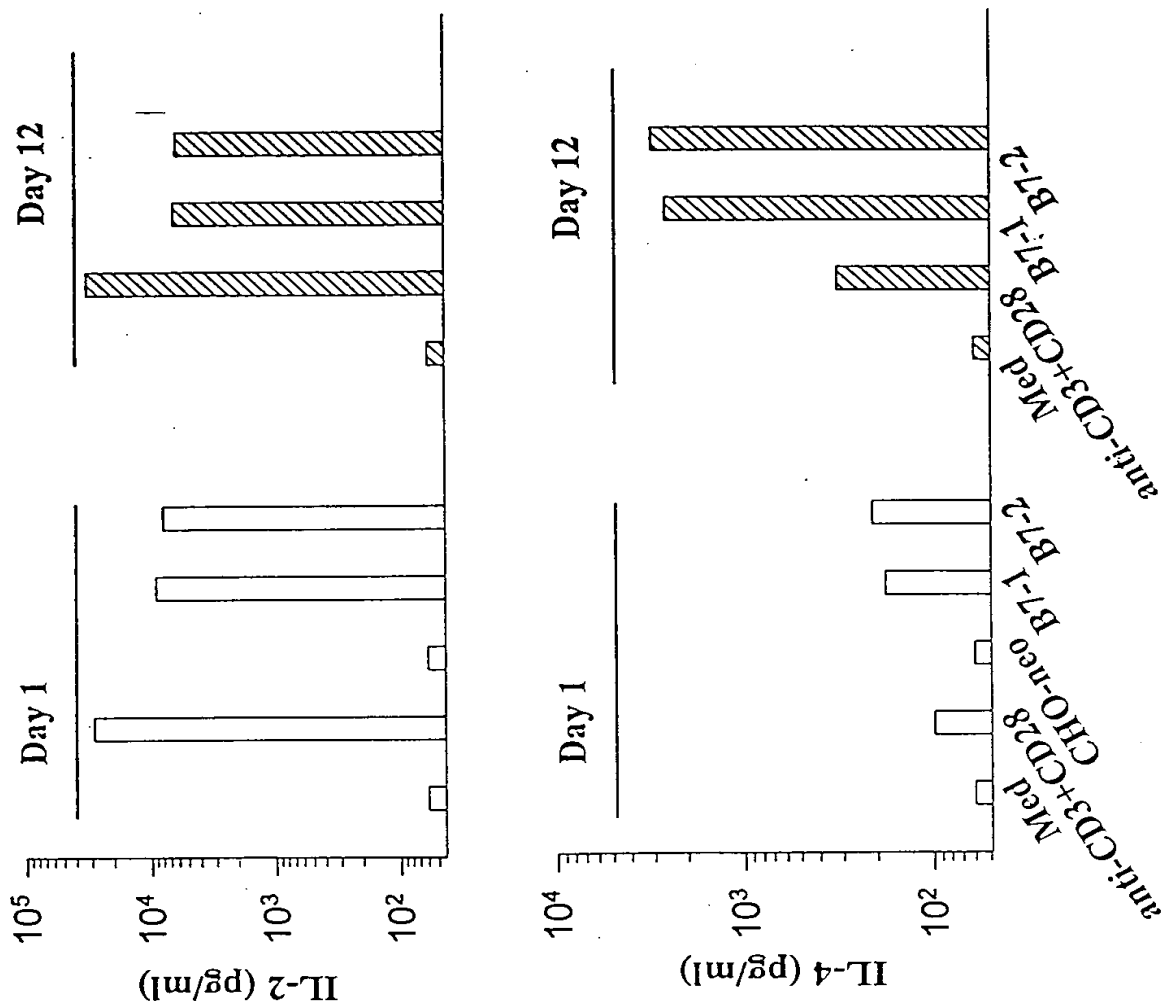


FIG. 25

658040 20205E60

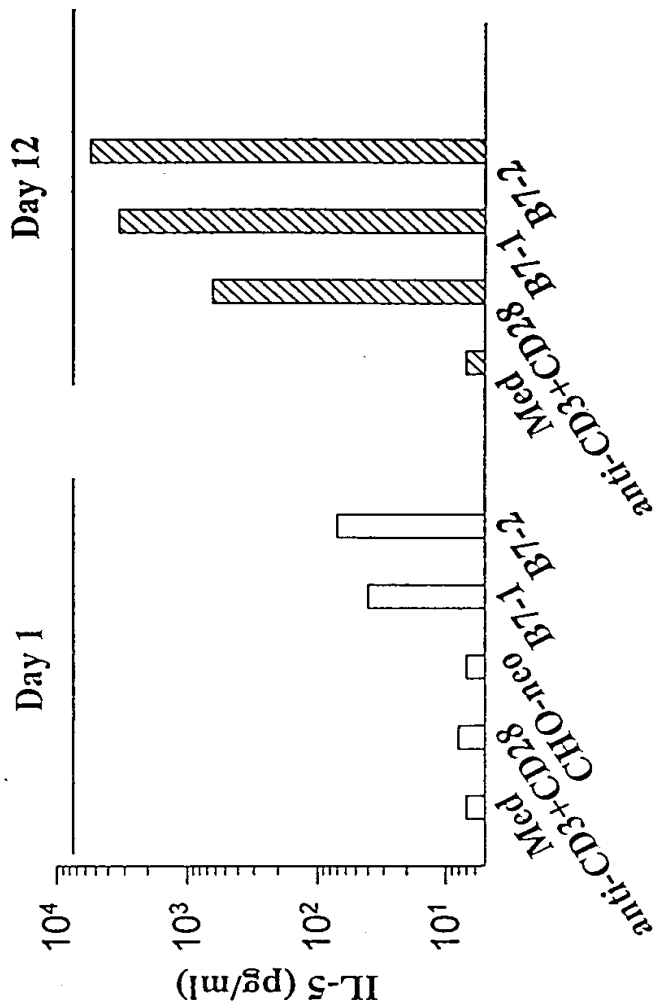
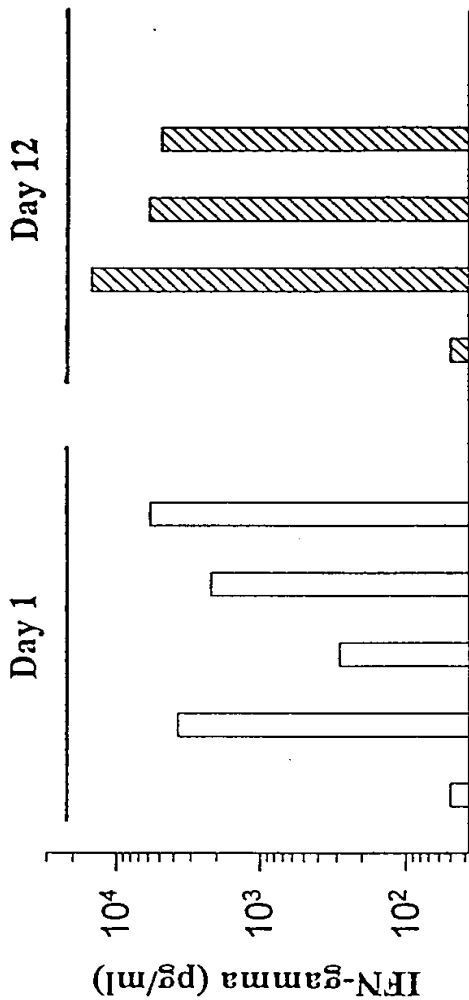


FIG. 24

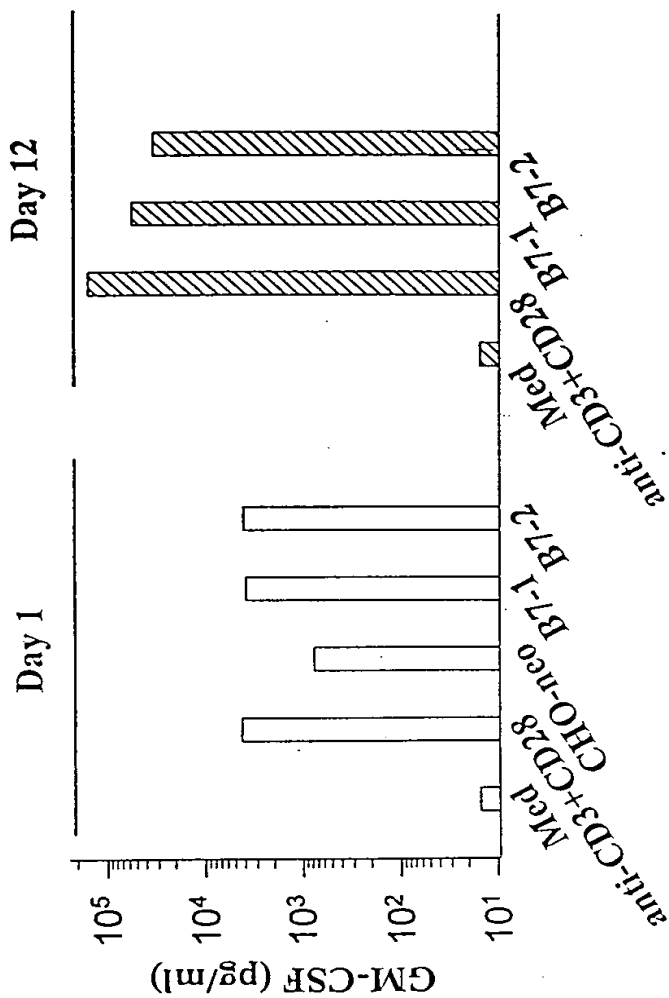
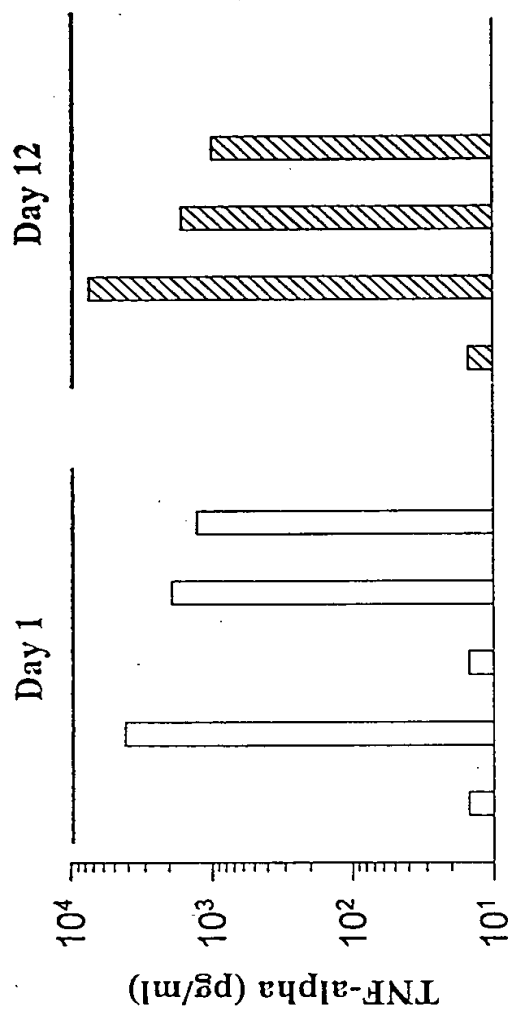


FIG. 27

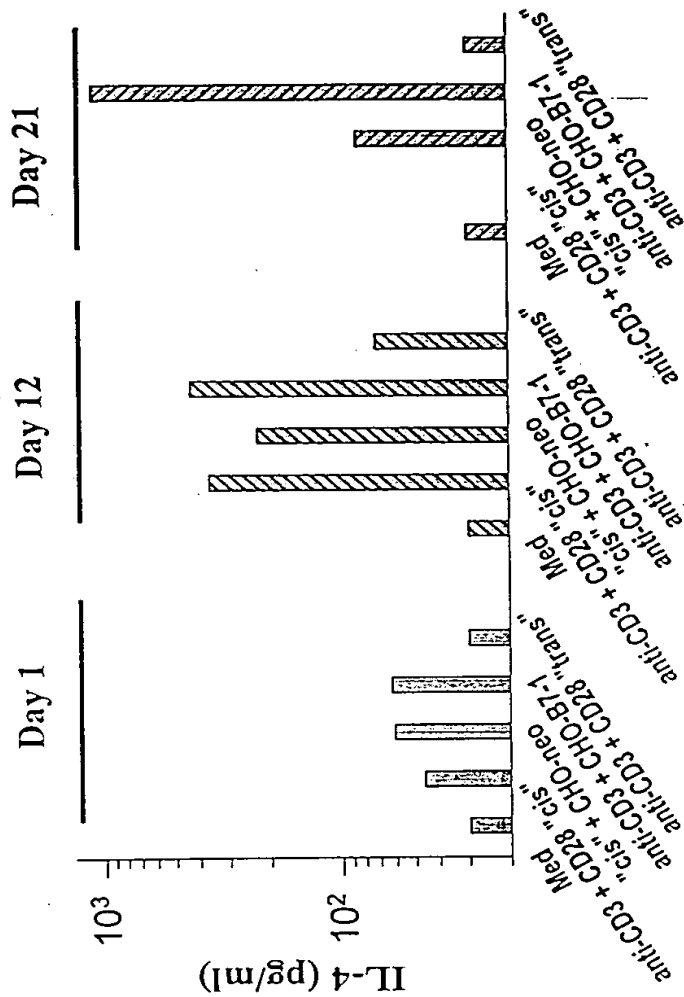
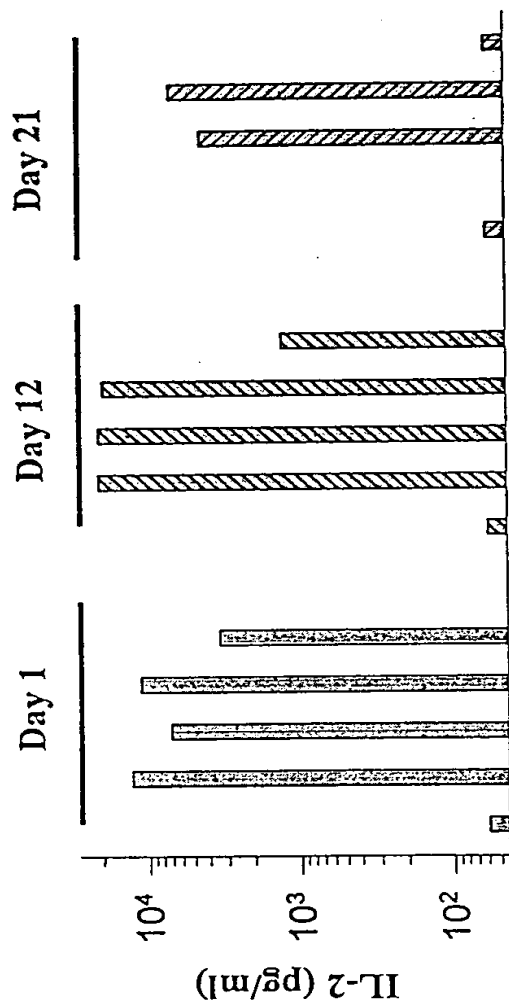


FIG. 28

6680/0" 20205660

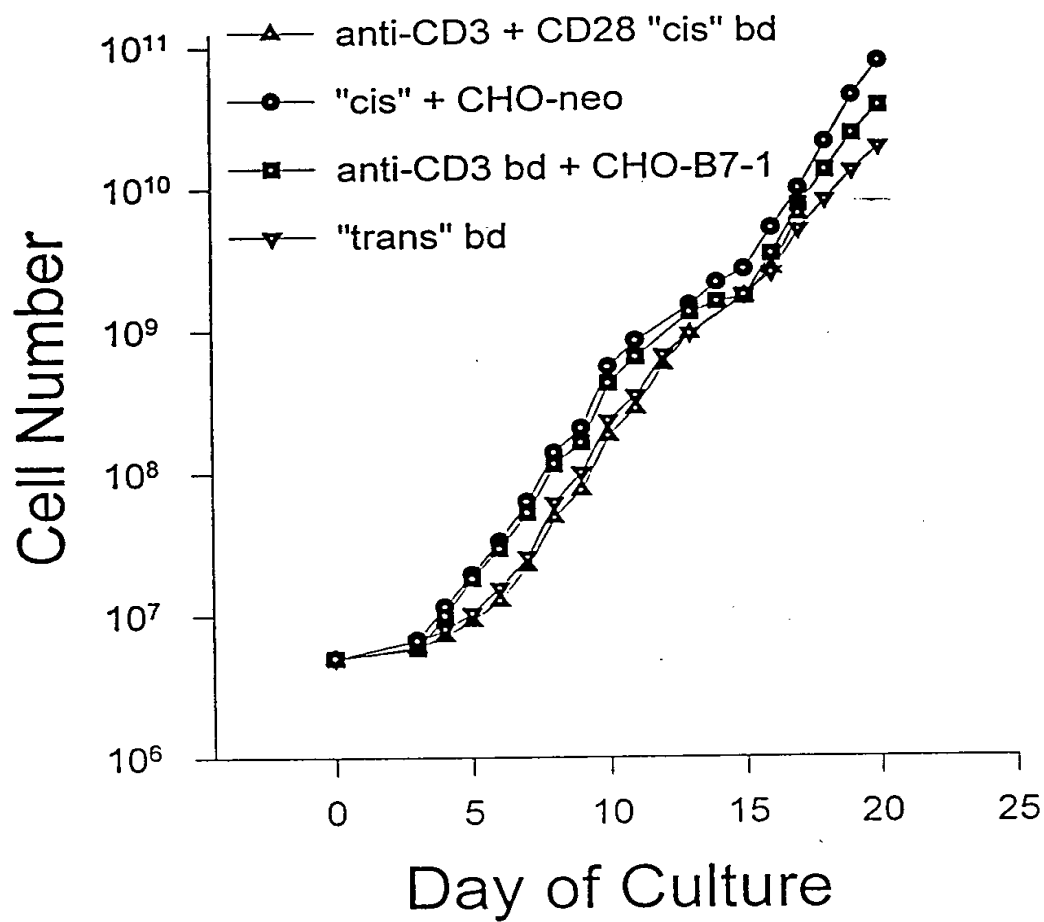


FIG. 29

668020" 20205560

HIV Pt# 713814

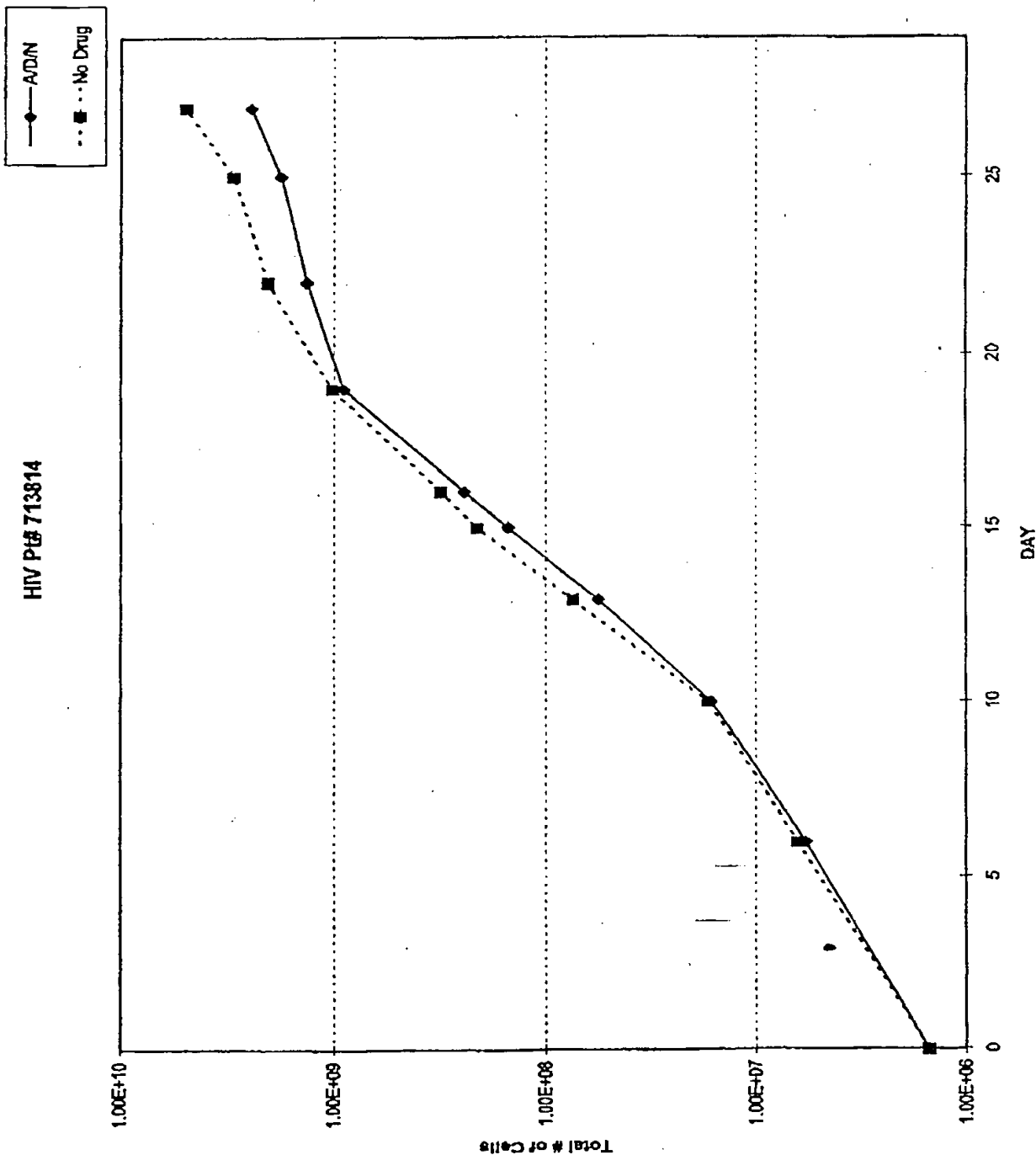


FIG. 30

668040" 2020560

POPULATION DOUBLING

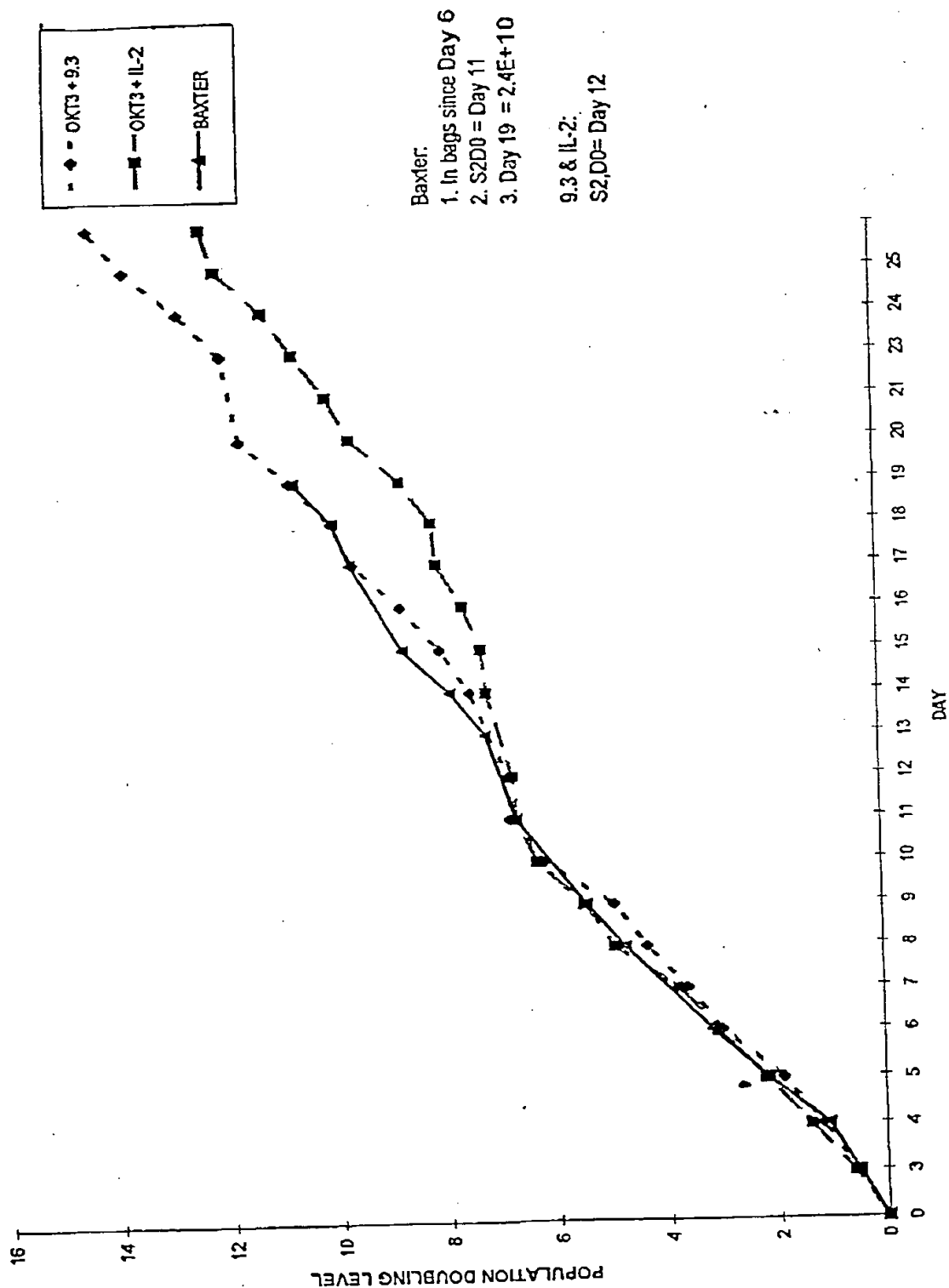


FIG. 31